

WSCF 0198

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**WSCF**  
**ANALYTICAL LABORATORY REPORT**

**ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT**

**for**

**Bechtel Hanford Inc**  
**Richland, WA 99352**

**Attention: S Trent/D Ayres MSIN: H9-03**

**Survey ID SAFB01-040**

**Data Validator**

*Shirley D. Belling*

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Group#: 20010335  
Report Date 7-mar-2001  
bulk/rev.4

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Fluor Hanford, Inc.  
MSIN: S3-28  
Richland, WA 99352

Phone 373-7403

**RECEIVED**  
APR 02 2001

**EDMC**



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## ANALYTICAL LABORATORY REPORT

### ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT

Your samples have been analyzed for fiber content using polarized light microscopy and dispersion staining in accordance with Industrial Hygiene Laboratory Procedure LA-519-403, based on 40 CFR Part 763, Subpart E, App. E and EPA method EPA/600/R-93/116. The results are attached.

This method provides a visual estimate of the percentage of each fiber type present. It is a semiquantitative method intended to identify materials containing  $>$  or  $=$  1% asbestos fibers.\* Reported fiber percentages for samples and sample layers are based on the samples as received by the laboratory. The laboratory cannot verify that these values are representative of the original material sampled.

The Waste Sampling and Characterization Facility is accredited by the American Industrial Hygiene Association (AIHA) to analyze bulk samples for asbestos content. This accreditation does not constitute approval or endorsement of analytical results by AIHA.

If there are questions concerning this report, please contact the data validator listed on the cover page of this report.

\* Because of the nonhomogeneous nature of soils, results will be reported using the following terms rather than percentages:

1. None - No asbestos fibers found.
2. Trace detectable - With extensive searching, a few fibers of the type indicated were found; concentration very low, well below 1%.
3. Obvious presence - Fibers easily found but overall concentration still low.
4. Significant presence - Fibers readily found; overall concentration may approach or exceed 1% level.

Polarized light microscopy (PLM) may not be the preferred method for identification of asbestos in floor tile. Most vinyl floor tiles marketed in the late sixties to mid-seventies contained asbestos milled so fine as to be below detection limits for PLM techniques. Tiles of that vintage, showing any detectable asbestos fibers should be considered to be asbestos-containing material. Non-detection of asbestos by PLM should not be considered conclusive proof that the tiles do not contain asbestos. Follow-up analysis by other techniques may be required.

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## ANALYTICAL LABORATORY REPORT

Attention: S Trent/D Ayres MSIN: H9-03

Group #: 20010335

| Sample # | Client ID | Test Performed | Range | Result | Units | Analyst | Sampled | Received | Analyzed |
|----------|-----------|----------------|-------|--------|-------|---------|---------|----------|----------|
|----------|-----------|----------------|-------|--------|-------|---------|---------|----------|----------|

W01K00425 B10020

The following are the results of this test-

Bulk Asbestos Layer 1

|                      |   |       |   |     |          |          |          |
|----------------------|---|-------|---|-----|----------|----------|----------|
| Cellulose            | < | 1     | % | adb | 03/01/01 | 03/01/01 | 03/05/01 |
| Fiberglass           | < | 1     | % | adb | 03/01/01 | 03/01/01 | 03/05/01 |
| Chrysotile Asbestos  |   | 10-20 | % | adb | 03/01/01 | 03/01/01 | 03/05/01 |
| Crocidolite Asbestos |   | 5-10  | % | adb | 03/01/01 | 03/01/01 | 03/05/01 |

SAMPLE COMMENT--- Homogeneous grey pressed gasket material with blue-grey and  
 SAMPLE COMMENT--- white fiber bundles and rust on one side, reportedly from  
 SAMPLE COMMENT--- the 276-S Hexone Tanks in 200E area.

RDL - Reporting Detection Limit RDL is  $\geq 2 \times$  MDL  
 RQ=Result Qualifier J - Estimated value.

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Bechtel Hanford Inc

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## ANALYTICAL COMMENT REPORT

Attention: S Trent/D Ayres MSIN: H9-03

Group #: 20010335

| Sample #  | Client ID | Lab Area | Test                  | Comment  |
|-----------|-----------|----------|-----------------------|--|
| W01000426 | B10020    | VALGROUP |                       | Validated 3/7/01 by SD Bolling, IH Technical Manager.  |
|           |           | LOGSAMP  |                       | Received by K. Beebe and logged by SD Bolling 3/1/01.  |
|           |           | TESTDATA | Bulk Asbestos Layer 1 | Homogeneous grey pressed gasket material with blue-grey and white fiber bundles and rust on one side, reportedly from the 276-S Hexone Tanks in 200E area. |

Lab Areas: VALGROUP - Group Validation  
LOGSAMP - Login for Sample

VALTEST - Test Validation  
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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*3/7/01*

20010000

|   |  |  |  |  |  |   |  |
|---|--|--|--|--|--|---|--|
| <b>Bechtel Hanford Inc.</b>   |  | <b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>        |  |  |  | Page 1 of 1   |  |
| Collector<br><i>Doug Bowers</i>   |  | Company Contact<br><i>Duane Jacques</i>                |  | Telephone No.<br><i>373-5299</i>   |  | Project Coordinator<br><i>Steve Trent</i>                   |  |
| Project Designation<br><i>276-S Hexone Tanks</i>  |  | Sampling Location<br><i>276-S Hexone tank 200 area</i> |  | SAF No.<br><i>1301-040</i>   |  | Price Code<br><i>9-05</i>                                   |  |
| Ice Chest No.<br><i>ERC 96-082</i>  |  | Field Logbook No.<br><i>E21519</i>                     |  | COA<br><i>B276SK130C</i>   |  | Air Quality <input type="checkbox"/>                        |  |
| Shipped To<br><i>WSCF</i>   |  | Offsite Property No.<br><i>N/A</i>                     |  | Method of Shipment<br><i>Gov Vehicle</i>   |  | Bill of Lading/Air Bill No.<br><i>N/A</i>                   |  |
| POSSIBLE SAMPLE HAZARDS/REMARKS<br><i>Sample @ 55°C pm BT &lt; 0.5 with</i><br><i>DXG @ 35°C pm BT</i><br><br>Special Handling and/or Storage<br><i>Each to 4 degrees @ 20 7-1-01</i> |  |  |  | Preservation   |  | <i>None</i>   |  |
|   |  |  |  | Type of Container  |  | <i>26</i>   |  |
|   |  |  |  | No. of Container(s)  |  | <i>1</i>  |  |
|   |  |  |  | Volume   |  | <i>120 ml</i>   |  |
| SAMPLE ANALYSIS<br><br><div style="float: right; text-align: right;"> <i>Bulk</i><br/> <i>ASB-STOS</i><br/> <i>EPA</i><br/> <i>600</i> </div>   |  |  |  |  |  |   |  |
|   |  |  |  |  |  |   |  |
| Sample No. / WSCF #   |  | Matrix *   |  | Sample Date  |  | Sample Time   |  |
| <i>B10020 / WSCF 1000423</i>  |  | <i>other solid</i>                                     |  | <i>3-1-01</i>  |  | <i>1320</i>   |  |
|   |  |  |  |  |  |   |  |
|   |  |  |  |  |  |   |  |
|   |  |  |  |  |  |   |  |
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|   |  |  |  |  |  |   |  |
|   |  |  |  |  |  |   |  |
| <b>CHAIN OF POSSESSION</b>  |  |  |  | <b>SPECIAL INSTRUCTIONS</b>  |  |   |  |
| Relinquished By <i>Doug Bowers</i>  |  | Date/Time <i>3-1-01/1435</i>                           |  | Received By <i>SP Bell</i>   |  | Date/Time <i>3/1/01 1245</i>                                |  |
| Relinquished By <i>RB Bowers</i>  |  | Date/Time <i>3/1/01 1445</i>                           |  | Received By <i>SP Bell</i>   |  | Date/Time <i>3/1/01 1445</i>                                |  |
| Relinquished By <i>SP Bell</i>  |  | Date/Time <i>3/1/01 1515</i>                           |  | Received By <i>Storage</i>   |  | Date/Time   |  |
| Relinquished By <i>Storage</i>  |  | Date/Time  |  | Received By <i>SP Bell</i>   |  | Date/Time <i>3/3/01 945</i>                                 |  |
| Relinquished By   |  | Date/Time  |  | Received By  |  | Date/Time   |  |
| Relinquished By   |  | Date/Time  |  | Received By  |  | Date/Time   |  |
|   |  |  |  | Matrix *<br>S-Sediment<br>SO-Solid<br>S-Sediment<br>W-Water<br>O-Oil<br>A-Air<br>DL-Dissolved Solids<br>TL-Total Solids<br>T-Tissue<br>WL-Water<br>L-Liquid<br>V-Vegetation<br>X-Other |  |   |  |
|   |  |  |  |  |  |   |  |
| LABORATORY SECTION  |  | Received By  |  | Title  |  | Date/Time   |  |
| FINAL SAMPLE DISPOSITION  |  | Disposal Method  |  | REMAINING SAMPLE STORED AT WSCF ASBESTOS   |  | LAB FOR AT LEAST 3 MONTHS, THEN DISCARDED AS ASBESTOS WASTE |  |

REMAINING SAMPLE STORED AT WSCF ASBESTOS  
LAB FOR AT LEAST 3 MONTHS, THEN DISCARDED AS ASBESTOS WASTE